



SPEAKER SYSTEM

Installation Series

**IF2115M/64(W), IF2115M/95(W), IF2115M/99(W),
IF2112M/64(W), IF2112M/95(W), IF2112M/99(W)**

OWNER'S MANUAL

Thank you for choosing this Yamaha speaker system. In order to take maximum advantage of the speaker's features and ensure optimum performance and longevity, please read this manual carefully before using the speaker system. Keep the manual in safe place for future reference.

BEDIENUNGSANLEITUNG

Vielen Dank für die Auswahl dieses Lautsprechersystems von Yamaha. Damit Sie die Eigenschaften dieses Lautsprechers optimal nutzen können, und um maximale Leistung und Lebensdauer sicherzustellen, lesen Sie bitte vor der Inbetriebnahme diese Anleitung sorgfältig durch. Bitte bewahren Sie diese Anleitung zum späteren Nachschlagen an einem sicheren Ort auf.

MODE D'EMPLOI

Nous vous remercions d'avoir acheté ces enceintes Yamaha. Pour obtenir les performances optimales de vos enceintes et garantir une longévité maximale, lisez attentivement ce mode d'emploi avant d'utiliser les enceintes. Conservez-le en lieu sûr pour pouvoir vous y référer ultérieurement.

MANUAL DE INSTRUCCIONES

Gracias por escoger este sistema de altavoces Yamaha. A fin de aprovechar al máximo las características de los altavoces y obtener un rendimiento y durabilidad óptimos, lea atentamente este manual antes de utilizar el sistema. Guarde este manual en un lugar seguro para futuras consultas.

取扱説明書

このたびは、ヤマハ製品をお買い求めいただきまして、まことにありがとうございます。
スピーカーの優れた性能を十分に生かして、末永くご愛用いただくために、この取扱説明書をご使用の前に必ずお読みください。

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PRECAUTIONS

PLEASE READ CAREFULLY BEFORE PROCEEDING

* Please keep this manual in a safe place for future reference.



CAUTION

Always follow the basic precautions listed below to avoid the possibility of physical injury to you or others, or damage to the device or other property. These precautions include, but are not limited to, the following:

Location

- Always consult qualified Yamaha service personnel if the device installation requires construction work, and make sure to observe the following precautions.
 - Choose mounting hardware and an installation location that can support the weight of the device.
 - Avoid locations that are exposed to constant vibration.
 - Make sure to use the specified hardware.
 - Inspect the device periodically.
- When transporting or moving the device, always use two or more people. Attempting to lift the device by yourself may damage your back, result in other injury, or cause damage to the device itself.
- Before moving the device, remove all connected cables.
- Do not expose the device to excessive dust or vibrations, or extreme cold or heat (such as in direct sunlight, near a heater, or in a car during the day) to prevent the possibility of panel disfiguration or damage to the internal components.
- Do not place the device in an unstable position where it might accidentally fall over.

Connections

- Before connecting the device to other devices, turn off the power for all devices. Before turning the power on or off for all devices, set all volume levels to minimum.
- Use only speaker cables for connecting speakers to the speaker jacks. Use of other types of cables may result in fire.
- Be sure to observe the amplifier's rated load impedance (see page 14), particularly when connecting speakers in parallel. Connecting an impedance load outside the amplifier's rated range can damage the amplifier.

Handling caution

- When choosing a power amplifier to use with your speakers, make sure that its power output matches the speakers' power capacity (refer to the Specifications on page 14). Even if the amplifier's power output is lower than the speakers' power capacity, the speakers may be damaged when clipping of a high input signal occurs. The following may cause damage to speakers:
 - Feedback caused when using a microphone.
 - Continuous high sound pressure level produced by electronic instruments.
 - Continuous high-power output of distorted signals.
 - Popping noises caused by turning on equipment, or by connecting or disconnecting system components while the amplifier is turned on.
- When turning on the AC power in your audio system, always turn on the power amplifier LAST, to avoid speaker damage. When turning the power off, the power amplifier should be turned off FIRST for the same reason.
- Do not operate this device at high volume levels or at a level that is uncomfortable, since it is capable of producing sound levels that could cause permanent hearing loss. If you experience any discomfort or ringing in the ears, or suspect an hearing loss, you should consult an audiologist.

Yamaha cannot be held responsible for damage caused by improper use or modifications to the device.

* Illustrations herein are for explanatory purposes only, and may not match actual appearance during operation.

* Company names and product names herein are trademarks or registered trademarks of their respective companies.

For details on signal processor settings when driving speakers with the use of multiple power amplifiers, please refer to the web site below.

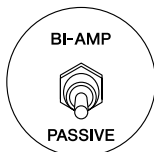
Yamaha Pro Audio global web site
<http://www.yamahaproaudio.com/>

Bi-Amp/Passive switch

Select the Bi-Amp mode (bi-amp drive) or the Passive mode (full-range drive).

⚠ CAUTION

Do not change the Bi-amp/Passive setting while the speaker is in use.

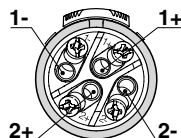


Neutrik Speakon NL4 plug wiring

Connect the plugs as shown below.

⚠ CAUTION

Be sure to use proper speaker cable – not shielded instrument or line cable – for all speaker connections.



| NEUTRIK plug | Bi-Amp | Passive |
|--------------|--------|---------|
| 1+ | LF+ | + |
| 1- | LF- | - |
| 2+ | HF+ | |
| 2- | HF- | |

NOTE The Speakon jack and barrier strip terminals are connected in parallel.

Suspended Installation

⚠ CAUTION

- The strength of the suspension points on the speaker is **60 kg** per point (maximum).
- Before doing any installation or construction work, consult with an installation expert.
- When choosing the installation location, suspension wire and mounting hardware, make sure all are strong enough to support the weight of the speaker.
- Some fittings may deteriorate over extended periods of time due to wear and or corrosion. For optimum safety, the installation should be checked thoroughly at regular intervals.

Yamaha cannot be held responsible for damage or injury caused by insufficient strength of the support structure or improper installation.

■ Using eye bolts for suspension

For optimum safety, make sure to carefully follow the precautions below.

⚠ CAUTION

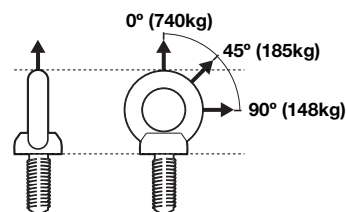
- Use only the supplied eye bolts.
- Use three or more eye bolts for suspended installations.
- Use the optional array frame if you intend to suspend a speaker from another suspended speaker.
- Install the eye bolts to multiple surfaces of the speaker, not just one surface.

■ Eye bolt strength

Keep in mind that the strength of the eye bolt differs depending on the suspension angle of the speaker. Make sure that the load for each eye bolt is less than 740 kg when suspending at an angle of 0 degrees, and less than 185 kg at an angle of 45 degrees.

⚠ CAUTION

When using the eye bolts, make sure that the suspension angle is within the range of 0 to 45 degrees, as shown below.



⚠ CAUTION

Do not suspend the eye bolts as shown in the diagram below.

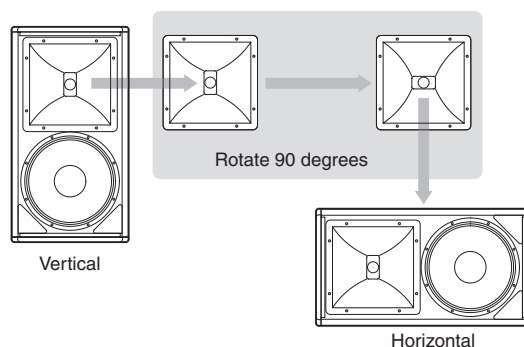


Rotatable horn

1. Remove all fixing screws on the grille, and remove the grille from the speaker.
2. Remove all screws installed on the horn, pull out the horn from the speaker, rotate the horn 90 degrees, and re-install the horn to the speaker.

⚠ CAUTION

Be careful when rotating the horn so that you do not accidentally cut the connection wires connected to the horn driver.



Specifications

| System Type | Middle power 2-way full-range speaker | | | | | | | | | | | | | | | | | |
|--|--|-----------------------|----------------------|---------------------|----------------------|----------------------|---------------------|-----------------------|----------------------|--|-----------------------|----------------------|---------------------|-----------------------|----------------------|---------------------|-----------------------|----------------------|
| Model | IF2112M/64(W) | | | IF2112M/95(W) | | | IF2112M/99(W) | | | IF2115M/64(W) | | | IF2115M/95(W) | | | IF2115M/99(W) | | |
| Specifications/ Drive Mode | Passive | Bi-amp | | Passive | Bi-amp | | Passive | Bi-amp | | Passive | Bi-amp | | Passive | Bi-amp | | Passive | Bi-amp | |
| Frequency Range (-10dB) (4π) ^{*1} | 55 Hz-20k Hz (Bi-amp mode) | | | | | | | | | 45 Hz-20k Hz (Bi-amp mode) | | | | | | | | |
| Frequency Range (±3dB) (4π) ^{*1} | 60 Hz-20k Hz (Bi-amp mode) | | | | | | | | | 55 Hz-20k Hz (Bi-amp mode) | | | | | | | | |
| Nominal Coverage (H x V, -6dB) | IF2112M/64(W): 60° x 40°, can be rotated to 40° x 60° IF2112M/95(W): 90° x 50°, can be rotated to 50° x 90° IF2112M/99(W): 90° x 90° | | | | | | | | | IF2115M/64(W): 60° x 40°, can be rotated to 40° x 60° IF2115M/95(W): 90° x 50°, can be rotated to 50° x 90° IF2115M/99(W): 90° x 90° | | | | | | | | |
| Power Rating | 350 W ^{*2} | LF: 350 W (AES) | HF: 60 W (AES) | 350 W ^{*2} | LF: 350W (AES) | HF: 60 W (AES) | 350 W ^{*2} | LF: 350 W (AES) | HF: 60 W (AES) | 350 W ^{*2} | LF: 400 W (AES) | HF: 60 W (AES) | 350 W ^{*2} | LF: 400 W (AES) | HF: 60 W (AES) | 350 W ^{*2} | LF: 400 W (AES) | HF: 60 W (AES) |
| Nominal Impedance | 8 ohms | LF: 8 ohms | HF: 8 ohms | 8 ohms | LF: 8 ohms | HF: 8 ohms | 8 ohms | LF: 8 ohms | HF: 8 ohms | 8 ohms | LF: 8 ohms | HF: 8 ohms | 8 ohms | LF: 8 ohms | HF: 8 ohms | 8 ohms | LF: 8 ohms | HF: 8 ohms |
| Sensitivity (1W@1m) | 95dB SPL | LF: 96dB SPL | HF: 110dB SPL | 95dB SPL | LF: 96dB SPL | HF: 108dB SPL | 95dB SPL | LF: 96dB SPL | HF: 108dB SPL | 97dB SPL | LF: 98dB SPL | HF: 110dB SPL | 97dB SPL | LF: 98dB SPL | HF: 108dB SPL | 97dB SPL | LF: 98dB SPL | HF: 108dB SPL |
| Calculated Peak SPL | 126dB SPL | LF: 127dB SPL | HF: 134dB SPL | 126dB SPL | LF: 127dB SPL | HF: 132dB SPL | 126dB SPL | LF: 127dB SPL | HF: 132dB SPL | 128dB SPL | LF: 130dB SPL | HF: 134dB SPL | 128dB SPL | LF: 130dB SPL | HF: 132dB SPL | 128dB SPL | LF: 130dB SPL | HF: 132dB SPL |
| Calculated Continuous SPL | 120dB SPL | LF: 121dB SPL | HF: 128dB SPL | 120dB SPL | LF: 121dB SPL | HF: 126dB SPL | 120dB SPL | LF: 121dB SPL | HF: 126dB SPL | 122dB SPL | LF: 124dB SPL | HF: 128dB SPL | 122dB SPL | LF: 124dB SPL | HF: 126dB SPL | 122dB SPL | LF: 124dB SPL | HF: 126dB SPL |
| Components | | | | | | | | | | | | | | | | | | |
| LF | 12" (30cm) Woofer, 3" (76mm) Voice Coil | | | | | | | | | 15" (38cm) Woofer, 3" (76mm) Voice Coil | | | | | | | | |
| HF | Rotatable Constant Directivity Horn, 1.4" (36mm) exit, 1.7" (44mm) Voice Coil Compression Driver | | | | | | | | | Rotatable Constant Directivity Horn, 1.4" (36mm) exit, 1.7" (44mm) Voice Coil Compression Driver | | | | | | | | |
| Enclosure | | | | | | | | | | | | | | | | | | |
| Dimensions (H x W x D) | 695 x 378 x 454 mm (27.4 x 14.9 x 17.9 ") | | | | | | | | | 770 x 448 x 534 mm (30.3 x 17.6 x 21.0") | | | | | | | | |
| Weight | 28kg (61lbs) | | | | | | | | | 34kg (75lbs) | | | | | | | | |
| Shape | 30° Trapezoidal | | | | | | | | | 30° Trapezoidal | | | | | | | | |
| Material | 5/8" (16mm), 11-ply Finnish Birch | | | | | | | | | 5/8" (16mm), 11-ply Finnish Birch | | | | | | | | |
| Finish | Textured Black (Textured White) | | | | | | | | | Textured Black (Textured White) | | | | | | | | |
| Grill | 16 gauge powder coated perforated steel grilles, backed with acoustically transparent reticulated foam | | | | | | | | | 16 gauge powder coated perforated steel grilles, backed with acoustically transparent reticulated foam | | | | | | | | |
| Connectors | 1x Neutrik NL4 and barrier strip, wired in parallel | | | | | | | | | 1x Neutrik NL4 and barrier strip, wired in parallel | | | | | | | | |
| Flying Hardware | 15x M10 for shoulder eyebolts and U-bracket 4x M8 for 3rd party speaker mount hardware | | | | | | | | | 15x M10 for shoulder eyebolts and U-bracket 4x M8 for 3rd party speaker mount hardware | | | | | | | | |
| Pole Mounts | n/a | | | | | | | | | n/a | | | | | | | | |
| Handle | n/a | | | | | | | | | n/a | | | | | | | | |
| Optional Accessory | | | | | | | | | | | | | | | | | | |
| U-bracket | UB2112(W) | | | | | | | | | UB2115(W) | | | | | | | | |
| Array Frame | HAF2-2112(W), HAF3-2112(W), VAF2-2112(W) | | | | | | | | | HAF2-2115(W), HAF3-2115(W), VAF2-2115(W) | | | | | | | | |
| 3rd party accessory | | | | | | | | | | | | | | | | | | |
| Omnimount (US) | 120.0 series | | | | | | | | | 120.0 series | | | | | | | | |
| Multimount (US, Allen products) | 120 series | | | | | | | | | 120 series | | | | | | | | |
| Powermount (UK) | 120 series | | | | | | | | | 120 series | | | | | | | | |
| Ohashi (Japan) | n/a | | | | | | | | | n/a | | | | | | | | |

* 1: With recommended YAMAHA DSP configuration.

* 2: 2 hrs. IEC noise.

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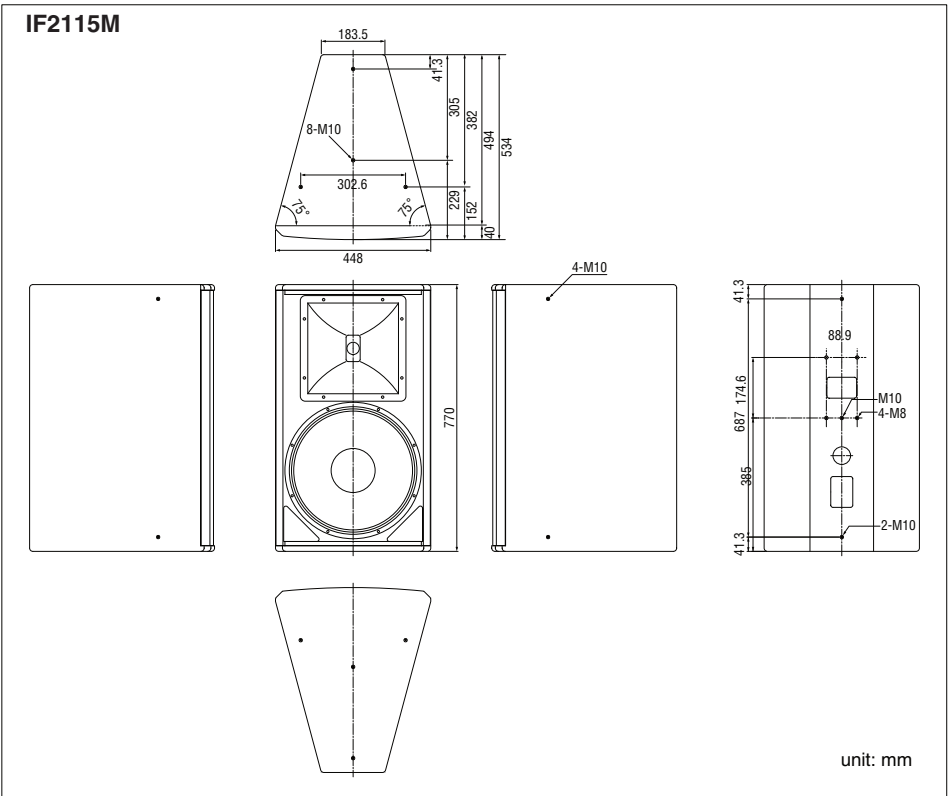
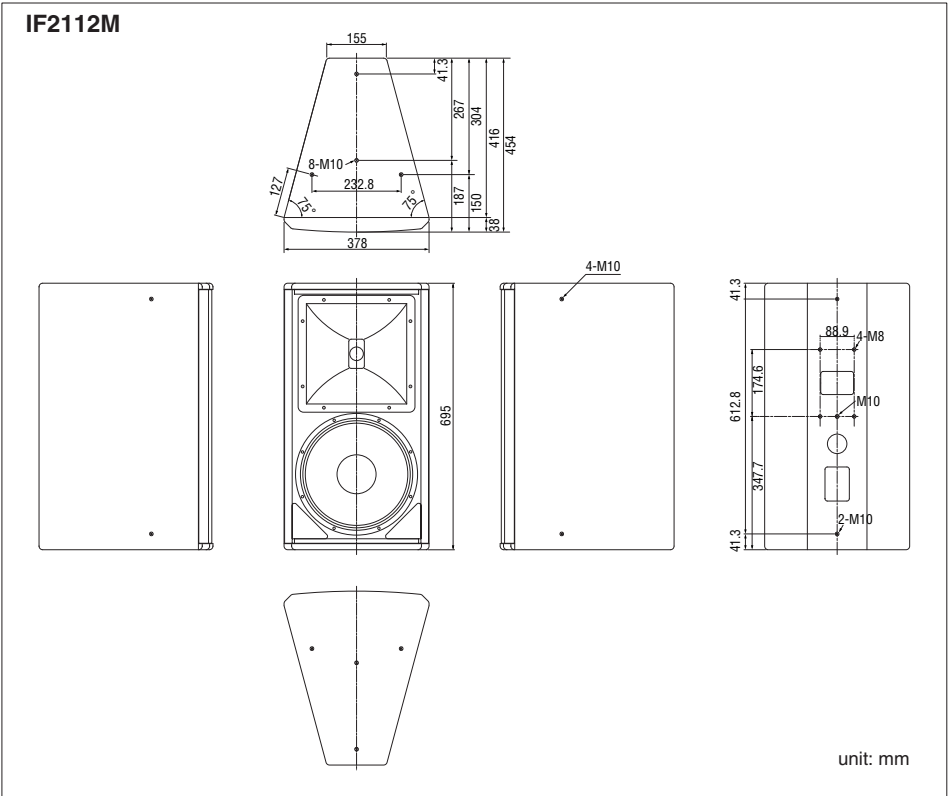
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Dimensions



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